

SAFETY DATA SHEET

1. Identification

Product number 0882 018
Product identifier Icaro Country Garden Disinfectant Spray
Company information Marcas Floor Care, Inc.

Company phone P.O. Box 194791
Emergency telephone US San Juan, 00919 Puerto Rico
Emergency telephone outside US 787-750-6550
1-952-852-4646

Version # 01
Recommended use Germicidal Cleaner
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1
Health hazards Serious eye damage/eye irritation Category 2A
OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Causes serious eye irritation.

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 2
hazard

Hazardous to the aquatic environment, long-term hazard Category 2

Supplemental information

Hazard statement Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Prevention Avoid release to the environment.

Response Collect spillage.
25.25% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 25.25% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Ethyl Alcohol		64-17-5	40 - 60
Butane		106-97-8	10 - 20
Propane		74-98-6	2.5 - 10

Product name: Country Fresh Disinfectant Spray

Product #: 0882 Version #: 01 Issue date: 02-27-2014

SOS US
1 / 9

Hazardous components	Common name and synonyms	CAS number	%
Chemical name			
o-Phenylphenol		90-43-7	0.1 - 1
Sodium Nitrite		7632-00-0	0.1 - 1
Other components below reportable levels			20 - 40

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Wash off with soap and water. Get medical attention if irritation develops and persists.
Skin contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Eye contact	In the unlikely event of swallowing contact a physician or poison control center.
Ingestion	Irritation of eyes and mucous membranes.
Most important symptoms/effects, acute and delayed	Provide general supportive measures and treat symptomatically.
Indication of immediate medical attention and special treatment needed	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
General information	

5. Fire-fighting measures

Suitable extinguishing media	Powder, Alcohol resistant foam, Water, Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid contact with eyes. Use only in well-ventilated areas. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not empty into drains.
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Conditions for safe storage, including any incompatibilities
 Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the MSDS), Level 2 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m ³ 1000 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm

US ACGIH Threshold Limit Values

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm

US NIOSH: Pocket Guide to Chemical Hazards Components

Components	Type	Value
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Butane (CAS 106-97-8)	TWA	1900 mg/m ³ 800 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m ³ 1000 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m ³ 1000 ppm

Biological limit values
 No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
 Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection
 Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Hand protection
 Wear protective gloves.

Other
 Wear appropriate chemical resistant clothing.

Respiratory protection
 If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards
 Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
 When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Color
 Not available.

Form
 Aerosol.

Physical state
 Gas.

Flash point
 -156.00 °F (-104.44 °C) Propellant estimated

Melting point/freezing point
 Not available.

Odor
 Not available.

pH
 Not available.

Solubility(ies)
 Not available.

Vapor density
 Not available.

Vapor pressure
 75 - 90 psig @20°C estimated

Viscosity
 Not available.

Other information

Specific gravity
 0.792 estimated

10. Stability and reactivity

Reactivity
 The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Avoid temperatures exceeding the flash point.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Skin contact Not available.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components Species

Test Results

Bulane (CAS 106-97-8)

Acute

Inhalation

LC50

Mouse	680 mg/l, 2 Hours
Rat	658 mg/l, 4 Hours

Ethyl Alcohol (CAS 64-17-5)

Acute

Inhalation

LC50

Mouse	39 mg/l, 4 Hours
Rat	20000 mg/l, 10 Hours

Oral

LD50

Dog	5.5 g/kg
Guinea pig	5.6 g/kg
Mouse	3450 mg/kg
Rat	6.2 g/kg

Other

LD50

Mouse	933 mg/kg
Rat	1440 mg/kg

o-Phenylphenol (CAS 90-43-7)

Acute

Dermal

LD50

Cat	500 mg/kg
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Oral

LD50

Cat	500 mg/kg
Guinea pig	3500 mg/kg
Mouse	2000 mg/kg
Rat	> 1000 mg/kg

Other

LD50

Mouse	50 mg/kg
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Propane (CAS 74-98-6)

Acute

Inhalation

LC50

Rat	> 1442.847 mg/l, 15 Minutes
	658 mg/l/4h

Components	Species	Test Results
Sodium Nitrite (CAS 7632-00-0)		
Acute		
<i>Inhalation</i>		
LC50	Rat	5.5 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	175 mg/kg
	Rabbit	186 mg/kg
	Rat	85 mg/kg
<i>Other</i>		
LD50	Mouse	158 mg/kg
	Rat	65 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs: Overall Evaluation of Carcinogenicity

o-Phenylphenol (CAS 90-43-7) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Possible reproductive hazard.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not likely, due to the form of the product.

12. Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product	Species	Test Results
Country Fresh Disinfectant Spray (CAS Mixture)		
<i>Algae</i>	<i>Algae</i>	472,222 mg/L, 72 Hours, estimated
<i>Crustacea</i>	<i>Daphnia</i>	890,5873 mg/L, 48 Hours, estimated
<i>Fish</i>	<i>Fish</i>	1672,4531 mg/L, 96 Hours, estimated
Components		
Ethyl Alcohol (CAS 64-17-5)		
<i>Crustacea</i>	<i>Daphnia</i>	11744,5 mg/L, 48 Hours
Aquatic		
<i>Crustacea</i>	<i>Water flea (Daphnia magna)</i>	7.7 - 11.2 mg/l, 48 hours
<i>Fish</i>	<i>Fathead minnow (Pimephales promelas)</i>	> 100 mg/l, 96 hours
o-Phenylphenol (CAS 90-43-7)		
<i>Algae</i>	<i>Algae</i>	0.85 mg/L, 72 Hours
<i>Crustacea</i>	<i>Daphnia</i>	1.75 mg/L, 48 Hours
Aquatic		
<i>Crustacea</i>	<i>Water flea (Daphnia magna)</i>	1 - 2.4 mg/l, 48 hours
<i>Fish</i>	<i>Fathead minnow (Pimephales promelas)</i>	3.4 mg/l, 96 hours
Sodium Nitrite (CAS 7632-00-0)		
Aquatic		
<i>Crustacea</i>	<i>Greasyback shrimp (Metapenaeus ensis)</i>	16.14 - 26.61 mg/l, 48 hours

Components**Species****Test Results**

Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/L, 96 hours
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* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow) -0.31

Ethyl Alcohol 2.36

Propane 2.89

Butane 3.09

o-Phenylphenol

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations**Disposal instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information**DOT**

UN number UN1950

UN proper shipping name Aerosols, flammable

Subsidiary hazard class(es) 2.1

Subsidiary class(es) Not available.

Packing group Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Labels required None

Special provisions N82

Packaging exceptions 306

Packaging non bulk None

Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity.

Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es) 2.1

Subsidiary class(es) -

Packaging group Not available.

Environmental hazards No

Labels required 2.1

ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, MARINE POLLUTANT

Transport hazard class(es) 2.1

Subsidiary class(es) -

Packaging group Not available.

Product name: County Fresh Disinfectant Spray

Product #: 0882 Version #: 01 Issue date: 02-27-2014

Environmental hazards

Marine pollutant

Yes

Labels required

None

EHS

F-D, S-U

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY

Transport In bulk according to

Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

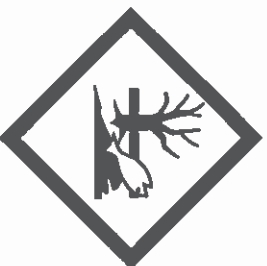
DOT



IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Nitrite (CAS 7632-00-0)

LISTED

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous No
chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and

Chemical Code Number

Not listed.

Food and Drug Administration (FDA) Not regulated.

US state regulations

US, New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)

o-Phenylphenol (CAS 90-43-7)

Propane (CAS 74-98-6)

Sodium Nitrite (CAS 7632-00-0)

US, Pennsylvania RTK - Hazardous Substances

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

o-Phenylphenol (CAS 90-43-7)

Propane (CAS 74-98-6)

Sodium Nitrite (CAS 7632-00-0)

US, California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

International Inventories

Country(s) or region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 02-27-2014

Version # 01

Further information Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Information

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: United States